

Fig. 1

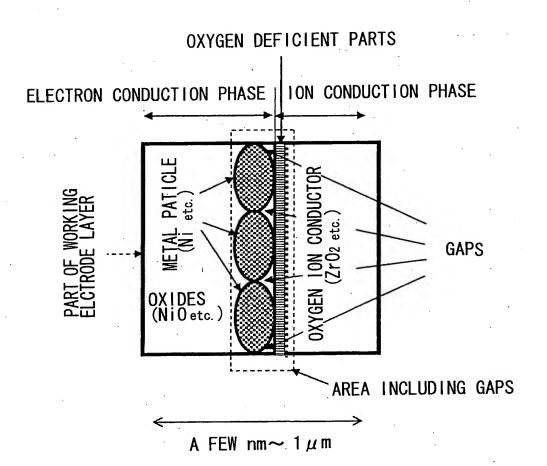


Fig. 2

IN THE PRESENSE OF 2% 02

NO CONCENTRATION 1000ppm

WORKING TEMPERATURE t

CATALYST ELECTRODE/

TREATMENT TEMPERATURE

PERFORMANCE OF CHEMICAL REACTOR OF PRESENT

PRESENSE OF REACTOR OF PREVIOUS APPLICATION

t=600°C Ni+YSZ/1450°C

CRESULT OF EXISTING RESEARCH t=700°C

t=700°C Pd / 1300°C

t=700°C Pd / 1300°C

t=700°C Pt / 1300°C

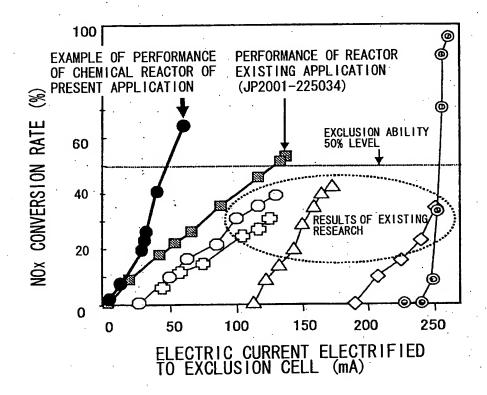


Fig. 3

OXYGEN DEFICIENT PARTS ELECTRON CONDUCTION PHASE OXYGEN ION CONDUCTOR OXIDES (NiO etc.) AREA INCLUDING GAPS A FEW nm ~ A FEW µm

Fig. 4

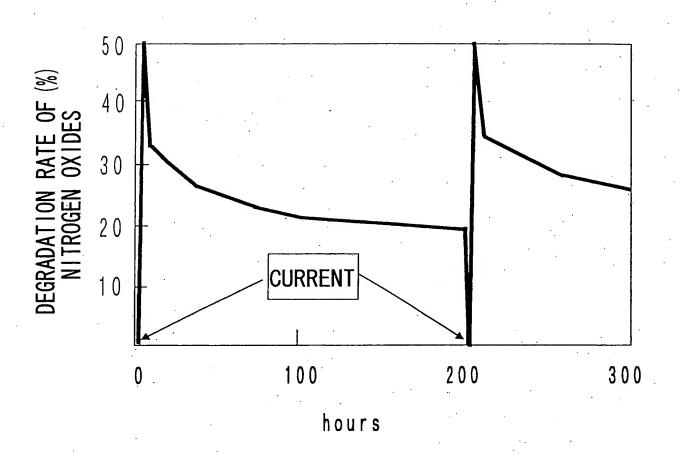


Fig. 5